

Application No.: 09/728,267
Response dated: December 8, 2004
Reply to Office Action of September 8, 2004

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A catalyst composition comprising, in combination, a polymerization catalyst comprising metallocene catalyst static charge modifier having the formula $[C]^+ [A]^-$ wherein the cation $[C]^+$ does not possess an active hydrogen or other reactive group and $[A]^-$ is a weakly conducting metal or metalloid containing anion, and wherein the polymerization catalyst and the static charge modifier are in a solid state.

2. (Previously Presented) The catalyst composition of claim 1 wherein the cation $[C]^+$ satisfies the formula $[DR_1 \dots R_n]$ wherein D is an atom having a permanent charge, selected from Group 15 of the Periodic Table and each R is independently an aliphatic or aromatic hydrocarbyl and n is the number of substitutions required to exhaust the ability of D to form additional chemical bonds.

3. (Previously Presented) The catalyst composition of claim 1 wherein $[A]^-$ has the chemical formula $[ER'_1 \dots R'_m]^-$ wherein E is a metal or metalloid and each R' is, independently, hydride radicals, bridged or unbridged dialkylamido radicals, alkoxide and aryloxy radicals, hydrocarbyl and substituted hydrocarbyl radicals, and hydrocarbyl and halohydrocarbyl substituted organometalloid radicals and m is an integer equal to the valence state of E^{+1} .

4. (Original) The catalyst composition of claim 3 wherein said metalloid is boron.

5. (Original) The catalyst composition of claim 1 wherein said static charge modifier is selected from the group consisting of:

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[N(C5H11)4][B(C6F5)4], [P(C4H9)4][B(C6F5)4],
[N(C4H9)4][B(C6F5)4], [N(C18H37)4][B(C6F5)4],
[P(C6H5)4][B(C6F5)4], and
[N(C18H37)2(CH3)2][B(C6F5)4].

6. (Original) The catalyst composition of claim 1 wherein said polymerization catalyst further comprises a carrier.

7. (Original) The catalyst composition of claim 6 wherein said carrier is an inorganic oxide carrier.

8. (Original) The catalyst composition of claim 1 further comprising a carrier and an activator.

9. (Original) The catalyst composition of claim 8 wherein said activator is alumoxane.

10. (Original) The catalyst composition of claim 1 wherein said static charge modifier is present in an amount ranging from .5 to 500 weight percent based on total polymerization catalyst weight.

11.- 29. (Withdrawn)